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To: Brandon Perkins/R10/USEPA/US@EPA

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Subject: Work Ongoing at Flint HIlls Refinery for the response to ACAT

Hi Brandon-

Here is a quick summary of what's underway at the site. You can use this or not in your letter. I suspect as the PM on this project, it sounds rather defensive of me, but I just want it to be clear that a lot of resources are being spent on this project. Particularly when compared with our entire list of projects.

Let me know if you need anything else.

Thanks,

Ann

DEC has formed a technical project team to provide the highest quality of oversight for the investigation of sulfolane in the ground water in North Pole. It includes scientific experts in the field of toxicology, engineering, hydrology, and environmental chemistry in addition to the representatives from the multiple state, federal, and local government agencies responsible for addressing the contamination. Since November 2009 when sulfolane was discovered off site, Flint Hills has been asked by DEC and this team to complete the following:

1. Complete identification and sampling of all water supply wells in the area.
2. Provide a permanent, clean water supply to all well owners that have been impacted.

3. Weekly monitoring of the City of North Pole water supply wells and post-treatment water.

4. Evaluate treatment alternatives for the water supply wells and the groundwater in a feasibility study.

5. Complete installation of monitoring wells to define the full extent of contamination.

6. Monthly monitoring of those newly installed monitoring wells downgradient as well as the primary wells on the refinery property.

7. Upgrade the remediation system on the refinery and evaluate other options to be more aggressive with the remediation efforts at the source.

8. Upgrade the prevention practices and their spill response to prevent future releases to the ground.

9. Construct a numerical model of the contaminant fate and transport to understand the potential future movement of the contamination and to estimate a time to clean up the aquifer.

10. Conduct plant sampling of garden crops that have been grown with sulfolane-impacted water.

11. Complete a risk assessment to guarantee that all pathways of potential exposure are understood and evaluated and also to address the potential for cumulative risk.

Several of these items are complete already. Flint Hills is completing a site characterization work plan that will formalize all the actions to be taken and the timeline for completing them. This will be done by the end of June. A revised corrective action plan will be completed once the site characterization and the risk assessment are complete, although interim corrective actions are already taking place.